

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001682

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21C 35/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE, DK, FI, NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2005753 A (SIEMAG TRANSPLAN GESELLSCHAFT MIT BESCHRANKTER HAFTUNG), 25 April 1979 (25.04.1979), abstract --	1-18
A	US 3167354 A (R.T. MACAUL ET AL), 26 January 1965 (26.01.1965), whole document --	1-18
A	US 4045088 A (K.-G. BECHEM), 30 August 1977 (30.08.1977), abstract --	1-18
A	FR 2461806 A1 (SOCIETE STEPHANOISE DE CONSTRUCTIONS MECANIQUES), 6 February 1981 (06.02.1981), figure 2 --	1-18

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
9 February 2005	02 -03- 2005
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. + 46 8 666 02 86	Authorized office: Lars Björk / MRo Telephone No. + 46 8 782 25 00

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/01/2005

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GB	2005753	A	25/04/1979	BE DE	871065 A 2843055 A	01/02/1979 19/04/1979
US	3167354	A	26/01/1965	GB	989687 A	22/04/1965
US	4045088	A	30/08/1977	AT AU CA DE FR GB SE ZA	284976 A 1310076 A 1033373 A 2616904 A 2307950 A 1520984 A 7604450 A 7506187 A	15/05/1978 20/10/1977 20/06/1978 06/10/1977 12/11/1976 09/08/1978 18/10/1976 29/06/1977
FR	2461806	A1	06/02/1981	BR CA ES ES	8004506 A 1145779 A 493475 A 8105439 A	03/02/1981 03/05/1983 16/05/1981 16/08/1981